

Comparisons of Job Characteristics

Focus Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	15.9	15.8	0 Current knowledge level may be sufficient
Mathematics	9.2	13.3	10.9	< Expanded education and/or training may be required
Production and Processing	6.0	11.7	10.9	0 Current knowledge level may be sufficient
Design	5.2	9.7	6.2	<< Extensive education and/or training may be required
Engineering and Technology	5.7	9.0	7.8	< Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 92

Focus Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)

Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	11.6	13.2	> Skill level is likely sufficient
Operation and Control	5.4	8.7	11.1	> Skill level is likely sufficient
Quality Control Analysis	5.9	8.2	11.8	>> Skill level is likely more than sufficient
Troubleshooting	4.5	6.9	9.2	>> Skill level is likely more than sufficient
Equipment Selection	3.3	6.2	8.0	> Skill level is likely sufficient
Equipment Maintenance	3.5	5.9	8.2	>> Skill level is likely more than sufficient
Repairing	3.4	5.9	7.6	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 78			
Focus Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011) Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	11.1	12.2	0	Current ability level may be sufficient
Arm-Hand Steadiness	6.8	10.4	11.2	0	Current ability level may be sufficient
Static Strength	5.0	10.2	9.1	<	Some improvement in abilities may be required
Finger Dexterity	7.6	10.1	10.1	0	Current ability level may be sufficient
Manual Dexterity	6.5	10.1	10.7	0	Current ability level may be sufficient
Trunk Strength	5.7	8.8	8.9	0	Current ability level may be sufficient
Reaction Time	4.8	8.5	13.2	>>	Current ability level is likely more than sufficient
Rate Control	3.8	8.0	10.1	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 97
Focus Occupation: Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011) Associated Occupation: Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Examine products or work to verify conformance to specifications	15	
Install equipment or attachments on machinery or related structures	48	
Lay out machining, welding or precision assembly projects	63	
Load or unload material or workpiece into machinery	34	
Measure, weigh, or count products or materials	17	
Move or fit heavy objects	8	
Operate hoist, winch, or hydraulic boom	34	
Operate metal or plastic fabricating equipment/machinery	54	
Read blueprints	10	
Read production layouts	66	
Read technical drawings	7	
Read work order, instructions, formulas, or processing charts	9	
Set up computer numerical control machines	69	
Set up production equipment or machinery	51	

Understand machine setup instructions	74
Understand technical operating, service or repair manuals	6
Use hand or power tools	2
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

**Similarity of Focus
Occupation to Associated
Occupation: 88**

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Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Holding and clamping tools	3
Industry specific software	1
Length and thickness and distance measuring instruments	2
Machine tools	7
Machinery for working wood and stone and ceramic and the like	12
Marking tools	11
Metal working machinery attachments	35
Power tools	2
Rough and finishing tools	5
Special tooling fixtures	16
Vision protection and accessories	3

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.